## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE       |  |  |  |  |  |  |
|---------------------------|----------|--------|------------|--|--|--|--|--|--|
|                           |          |        |            |  |  |  |  |  |  |
| FEE DETERMINATION         | Sm       |        | 1/3/00     |  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | 11 00  | 7 01 13.00 |  |  |  |  |  |  |
| FORMALITY REVIEW          | (10)     | 11640  | 7/3        |  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | 7        |        | 70         |  |  |  |  |  |  |

## INDEX OF CLAIMS

| 1 | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| Cla            | ıim        |              | اء   |  |              | Da             | ite       |              |          |              |           |              | CI   | ai  | m        |        |              |              | Da       | te           |              |               |          |           | CI       | aim |    |          |  |  | Dat      | e        |          |              |              |   |
|----------------|------------|--------------|--|--|--------------|----------------|-----------|--------------|----------|--------------|-----------|--------------|--|-----|----------|--------|--------------|--------------|----------|--------------|--------------|---------------|----------|-----------|----------|-----|----|----------|--|--|----------|----------|----------|--------------|--------------|---|
|                | Øriginal . | 20/          | 5 18/0x  | Ý  | 2            | 320            |           | T            | T        |              |           |              |  | Т   | Original | Γ      | Γ            |              |          |              |              |               |          |           |          | Ē   |    |          |  |  |          |          |          |              |              |   |
| Final          | igi        |              | 3  | 2  | <u>/</u> 7   | 2              | 1         | İ            | -        |              | -         | - }          | Final                                      | 1   | ğ        |        |              |              |          |              |              |               |          |           | Final    | 1.5 | '  |          |  | - 1  |          |          |          |              |              |   |
| 1              | (d)        |              | 5  | $\frac{\Delta}{D}$                               |              | -              | ╁         | +            | +        | -            | -         | $\dashv$     | <u>                                   </u> | +   | 51       | ╁      | ╁            | ├            | $\vdash$ | -            |              | -             |          | $\dashv$  | "        | 10  |    |          |  | $\dashv$   | -        | $\vdash$ | $\vdash$ | $\vdash$     | ╁            | ┝ |
| $\vdash$       | 3          | <u>'~ </u>   | 굇  | V  | -            | -              | +         | +            | +        |              | $\dashv$  | ႕            |  | -   | 52       | ╁      | ┢            | ┝            |          |              | _            |               | -        |           | $\vdash$ | 10  |    |          | _  | $\dashv$   |          | H        |          |              | ╁            | H |
| -              | <b>4</b>   |              | $\neg$   | Ĭ  | <u> </u>     |                |           | +            | $\dashv$ | $\dashv$     | -         |              | -  | 1 . | 53       | +      | ╁            | ┢            |          |              |              |               | $\dashv$ |           | -        | 10  |    | -        |  | -  |          |          | $\vdash$ | $\vdash$     | $\vdash$     | ╁ |
| -              | 4          | Y            | 싓  | ٦  | J            | C              | 4         | +            | +        | -            | -         |              | ⊢  | _   | 54       | +-     | $\vdash$     | -            | ├        |              | -            |               | $\dashv$ | $\dashv$  | -        | 10  |    |          | _  |  |          | $\vdash$ | $\vdash$ | -            | ╁            | ╁ |
| -              | 5          | J            | 7  | y  | Ť            | H              | +         | ╁            | $\dashv$ | $\dashv$     | -         | -            | -  | -   | 55       | +      | +            | -            | ╁        | H            | -            |               |          | $\dashv$  | -        | 10  |    |          | _  |  |          |          |          |              | +            | t |
| $\vdash$       | 6          | V            | 7  | Ť  | v            | H              | ╁         | +            | $\dashv$ | -            | -         | $\dashv$     | -  | -   | 56       | +      | $\vdash$     | +-           | 1        | -            |              |               | $\dashv$ | -         | -        | 10  |    | $\vdash$ | -  |  |          | Н        | П        | H            | +            | t |
| -              | 7          | 1            |  | $\overline{v}$                                   | J            | <del>  t</del> | +         | +            | +        |              | -         | $\dashv$     | -  |     | 57       | +      | $\vdash$     | $\vdash$     | $\vdash$ | ┢═           |              |               | 一        | $\dashv$  |          | 10  |    |          | -  |  |          | П        | П        |              | T            | t |
| į              | .8         | 14           | Y)   | <u>, , , , , , , , , , , , , , , , , , , </u>    | v            | 1              |           | +            | $\dashv$ | -            |           | $\dashv$     | F  | 4   | 58       | +      | +-           | <del> </del> | <u> </u> | $\vdash$     | <u> </u>     |               |          | $\dashv$  |          | 10  | -  |          | $\vdash$   |  |          |          |          |              | T            | T |
| ↲              | (1)        |              | 히  | Ť  | <br>V.       | ~              |           | +            | $\dashv$ |              |           |              | -  | -+  | 59       | +      | +            | $\vdash$     | $\vdash$ | <del> </del> |              | $\overline{}$ | $\Box$   | _         | -        | 10  |    |          |  |  |          |          |          |              | T            | t |
| ╙              | 10         | v            | J  | Ť  | J            | -              | +         | $^{\dagger}$ | +        | -            |           | $\dashv$     |  | -+  | 60       | t      | <b>†</b>     | 1-           |          | <del> </del> | _            |               |          | _         |          | 11  | -  | -        | <u> </u>   | П  |          | Ħ        | П        |              | T            | t |
|                | 11         | J            | V  | V  | J            | H              | $^{+}$    | $^{+}$       | +        |              |           | Н            | _  |     | 61       | +      | t            |              | $\vdash$ | T            |              |               |          |           |          | 11  |    | Т        |  |  |          |          | 7        |              | T            | T |
| -              | 12         | 7            | Ĭ  | Ú  | J            | Ħ              | +         | +            | 1        | -            |           | $\vdash$     |  | _   | 62       | †      | T            | t            | $\vdash$ | 1            |              | Г             | Н        | _         | -        | 11  | -  |          |  |  |          | П        |          | Г            | T            | T |
| $\vdash$       | 13         | J            | V  | J  | J            | H              | +         | $\dagger$    | $\dashv$ |              |           | H            |  | -4  | 63       | †      | T            |              | $\top$   |              |              |               | П        | $\neg$    |          | 11  |    | 1        |  |  |          |          | Г        | Г            | T            | T |
| $\vdash$       | 14         | J            | V  | V  | V            | -              | +         | $\dagger$    | $\dashv$ | _            | -         | $\Box$       | -  | 1   | 64       | 1      | T            | 1            | $\top$   | †            |              | Г             |          | $\neg$    |          | 11  | 4  | T-       |  |  |          | Г        |          | Г            | 1            | T |
|                | 15         | 7            | Ū  | V  | V            | -              | +         | 十            |          |              |           | H            | -  | _   | 65       | $\top$ | T            | 1            | 1        | 1            |              | l –           | П        | $\dashv$  |          | 11  |    | Г        |  |  | Г        | Г        | Г        |              | T            | T |
|                | 16         | J            | V  | J  | U            | -              |           | +            | 7        |              |           |              |  |     | 66       | 1      | <b>†</b>     | ╁            | T        | T            | Г            | -             |          | $\neg$    |          | 11  | 6  |          |  |  |          |          | Г        | Г            | T            | T |
| -              | 17         | ۲            | V  | Ū  | V            | -              |           | 7            |          |              |           | Н            |  | 1   | 67       | 1      | T            | +            |          |              | Г            |               |          |           |          | 11  | 7  |          |  |  |          |          |          |              | T            | T |
| $\vdash$       | 18         | $\vdash$     | 7  | V  | _            | /:             | -         | 7            |          |              | ┢         | Ħ            |  | 7   | 68       | $\top$ | T            | 1            | 1        |              |              |               |          |           |          | 1   | 8  | Г        |  |  |          | П        |          |              | T            | T |
| +-             | 19         |              | H  |  | T            | +              | +         | 7            |          |              | $\vdash$  |              |  | 7   | 69       | T      | 1            | $\top$       | $\top$   |              |              | Г             |          | П         | -        | 1   | 9  | Т        |  |  |          |          |          |              | T            | T |
| $\vdash$       | 20         |              |  | _  | $\vdash$     | t              | $\dagger$ | +            | _        | -            |           | П            |  |     | 70       | $\top$ | 1            |              | 1        |              |              | 1-            |          | П         |          | 12  | 0  | Т        | 1  |  |          | Τ        | $\vdash$ |              | $\top$       | T |
| ` <del> </del> | 21         | $\vdash$     |  |  | ┝            | ╁              | +         | +            |          | -            | -         | $\vdash$     | -  | _   | 71       | ╅      | +-           | +-           | +-       | ╁            | $\vdash$     | ┢             | $\vdash$ | $\vdash$  | -        | 12  | -  | <u> </u> | H  |  |          | +        | 一        | +            | +            | † |
| 1              | 22         | -            | -  |  | 1            | ╁              | ╅         | +            |          | -            | -         | -            | <del> </del>                               | 1   | 72       | +      | ╁            | +            | +        | +            | <del> </del> | <u> </u>      | -        | Н         |          | 12  |    | 1        | <del>                                     </del> | <del>                                     </del> | H        | $\vdash$ | †-       | t            | +            | † |
| 1              | 23         | <del> </del> | -  |  | ╁            | +              | +         | $\dashv$     | _        |              | -         |              | -  | 1   | 73       | +      | ╁            | +-           | +        | +-           | 1            | <u>├</u>      | †        | Н         | -        | 1:  |    | 1        | 1  | <u> </u>   | t        | 一        | 1        | T            | $\top$       | T |
| -              | 24         | H            | -  | -  | ┢            | ╁              | +         | +            | _        | $\vdash$     | $\vdash$  | $\vdash$     |  |     | 74       | +      | 1            | ╁            | 1        | t            | 1            | 1             | $\vdash$ | Ħ         |          | 13  |    | 1        | ļ —  |  |          | 1        | $\vdash$ | T            | 1            | t |
| -              | 25         | -            | <del> </del> —                                   | -  | ╁            | ╁              | +         | $\dashv$     |          |              | ╁╴        |              | -  | -   | 75       | +      | +            | +            | +        | +            | $\vdash$     | †-            | T        |           |          | 1:  |    | T        | Т  | $\vdash$   |          | T        | $\vdash$ | T            | +            | T |
| $\vdash$       | 26         | -            | -  | -  | ┢            | 十              | +         | +            |          | <del> </del> | -         | 1-           | i H  | -   | 76       | 十      | 十            | 1            | †        | T            | 1            | 1             |          | $\Box$    |          | 12  |    | t        | 一  |  |          | T        | $\top$   | $\vdash$     | $^{\dagger}$ | Ť |
| $\vdash$       | 27         | $\vdash$     | $\vdash$   |  | ╁            | +              | +         | 7            |          | -            | $\vdash$  | +            | -  | T   | 77       | +      | +            | 1-           | +        | $\dagger$    | 1-           | 1             | 1        | Н         |          | 1:  |    | T        | 1  | 1-   |          | T        | T        | t            | +            | † |
| $\vdash$       | 28         | ╁            | _  | H  | t            | $^{+}$         | $\dagger$ | 7            | _        | $\vdash$     | -         | T -          | 1  |     | 78       | +      | 1            | 1            | $\top$   | $\top$       | 1            | $\vdash$      | t        | П         |          | 1:  |    | T        | 1  |  | $\vdash$ | T        | T        | $\top$       | 1            | Ť |
| $\vdash$       | 29         | ╁            | t-   | -  | +            | +              | $\dagger$ | _            |          | ╁            | ╁╌        | T            | -  | T   | 79       |        | Ť            | ╁            | T        | T            | T            | T             | 1        | П         |          | 12  | 9  | $\top$   | 1  | _  | Т        | T        |          | 1            | T            | Ť |
|                | 30         |              | $\vdash$   |  | ┢            | +              | $\dagger$ | 7            |          | Г            | 1         | 1            |  | _   | 80       | +      | +            | $\dagger$    | +        | †            | T            | 1             | 1        | П         |          | 1:  | ю  |          | 1  |  | T        | T        | T        | $\top$       | 1            | † |
| $\vdash$       | 31         |              |  | <del>                                     </del> | ╁            | $\dagger$      | ┪         | 7            |          | 1            | T         | $\vdash$     | 1  |     | 81       | ┪      | 十            | $\top$       | 1        | t            | 1            | † –           | 1        | П         |          | 1   | 31 | T        |  |  | T        | $\top$   | T        | $\top$       | T            | 1 |
| $\vdash$       | 32         | -            | -  | $\vdash$   | 十            | $^{\dagger}$   | 7         | 7            |          | ╁            | 一         | ┼┈           | 1  | _   | 82       | 十      | 十            | $\top$       | ╅        | ╁            | T            | 1             | T        | П         |          |     | 32 | †        | 1  |  | 1        | T        | $\top$   | $\top$       | $\top$       | 1 |
| $\vdash$       | 33         |              | 1  | -  | t            | +              | 7         | $\exists$    |          | $\vdash$     | 1         | $\vdash$     | 1  |     | 83       |        | $\top$       | 1            |          | T            | T            |               | 1        | П         |          | 1   | 33 | 1        | Г  | 1  |          | $\top$   | 1        | T            | T            | T |
|                | 34         | -            |  |  | T            | $^{\dagger}$   | $\forall$ |              |          | 1            | Ħ         | <b>†</b> • • | i r  |     | 84       | $\top$ | $\top$       | T            | 1        | $\top$       | $\top$       | 1             | Τ        | П         |          |     | 34 | 1        |  | T  | Ì        |          | Т        | T            | T            | 1 |
| $\vdash$       | 35         | T            | 1  | Г  | ✝            | +              | 7         | _            |          | T            |           | <u> </u>     | 1  |     | 85       | 1      | T            | 1            | 1        | T            | Τ            | T             | 1        | П         |          | 1   | 35 | 1        |  |  |          | T        | T        | T            |              | T |
| F              | 36         |              | <b>†</b>   | T  | 1            | T              | 7         |              |          |              | 1         |              | 1  |     | 86       | Ţ      | $\top$       | 7            | $\top$   | Т            | Т            | T             |          | $\Box$    | Γ        | 1   | 36 |          |  |  |          | Т        |          | T            |              | Ι |
| Г              | 37         | ·Ĺ           | $\vdash$   | T  | T            | †              | $\dashv$  |              |          | T            | †         |              | ir   |     | 87       | T      | T            | T            | Т        |              | T            | T             | T        |           | Г        | 1   | 37 | 1        | Τ  |  |          | $\top$   | Т        | Т            | 1            | T |
|                | 38         | -            | <del>                                     </del> | 1  | T            | 1              | 7         | 1            |          | Τ            |           |              | 1 [  |     | 88       |        | Т            | Τ            | Т        | T            | T            |               |          |           | Γ        | 1:  | 88 |          |  |  | Т        |          |          | $\mathbf{L}$ | L            |   |
|                | 39         | 1            | 1  | 1  | T            | 1              | T         |              |          | Г            | 1         | Т            | 1 [  |     | 89       |        |              |              |          |              |              | Т             |          |           |          | 1   | 39 |          |  |  |          | $\Box$   | $\Box$   | $\Box$       | $\perp$      | 1 |
|                | 40         | 1            | 7  | Г  | †            | Ť              | T         |              |          | Т            |           | Τ.           | 1  |     | 90       | Т      | T            |              | 1        |              |              |               |          |           | Γ        | 1   | 10 |          | Τ  |  | Τ        |          | T        | Т            | Τ            | T |
| ┢              | 45         | †            | 1  | t  | 1            | t              | T         |              | _        | 1            | 1         | $\top$       | 1  |     | 91       | +      | 1            | T            | 1        | Ť            | 1            | $\top$        | T        | $\Box$    |          | 1   | 41 | 1        | $\top$   |  | $\top$   | T        |          | $\top$       | T            | T |
| $\vdash$       | 42         |              | ┼  | ╁  | $^{+}$       | +              | 1         |              |          | +            | T         | †-           | 1  | _   | 92       | +      | 1            | +            | +        | +            | 1-           | $\dagger$     | T        | Ħ         |          |     | 12 | 1        | ✝  |  | 1-       | T        | 1        | T            | 十            | 1 |
| 十              | 43         |              | <del> </del>                                     | +  | +            | +              | $\dashv$  |              | -        | t            | $t^{-}$   | †            | 1  | -   | 93       | +      | †            | ╁            | 1        | T            | 1            | 1             | 1        | П         |          |     | 13 | 1-       | 1  | 1  | 1        | $\top$   | T        | $\top$       | 1            | † |
| 1              | 44         | _            | +  | t  | $\dagger$    | +              | +         |              | Н        | T            | 十         | †            | 1  |     | 94       | $\top$ | $\top$       | 1            | $\top$   | $\top$       | $\top$       | T             | $\top$   | $\sqcap$  |          |     | 14 | T        | T  | 1  | T        | T        | 1        | T            | T            | 7 |
| $\vdash$       | 45         | _            | +  | $\vdash$   | $^{\dagger}$ | +              | $\dashv$  |              | Н        | +            | ╁╴        | $\top$       | 1  |     | 95       | 十      | +            | $\top$       | 1        | $\top$       | 十            | T             | †        | $\sqcap$  | 一        | _   | 15 | $\top$   | +  | $\dagger$  | T        | $\top$   | 1        | $\top$       | T            | † |
| 上              | 46         |              | +  | $\vdash$   | +            | +              | 7         |              | $\vdash$ | $\dagger$    | $^{+}$    | +            | 1  |     | 96       | - -    | †            | $\top$       | T        | $\top$       | +-           | $\top$        | 1        | $\sqcap$  | 一        |     | 16 | 1        | 1  | 1  | T        | +        | T        | T            | 十            | † |
| -              | 47         |              | $t^-$  | $\dagger$  | +            | $^{+}$         | 寸         | _            | -        | $\dagger$    | $\dagger$ | $\top$       | 1  |     | 97       | $\top$ | $^{\dagger}$ | 十            | $\top$   | $\top$       | $\top$       | T             | T        | $\forall$ | T        |     | 17 | 1        | T  | T  | $\top$   | $\top$   | †        | †            | $\top$       | † |
| 十              | 48         |              | +  | T  | +            | +              | $\dashv$  |              |          | T            | $\dagger$ | 1            | 1  |     | 98       | $\top$ | $\top$       | 1            | $\top$   | $\top$       | $\top$       | 1-            | T        | П         | <u> </u> | _   | 18 | 1        | T  | T  | T        | +        | 十        | 1            | 7            | 7 |
| -              | 49         |              | t  | +-   | t            | $\dagger$      | 7         | _            | -        | T            | T         | +            | 1  |     | 99       | 一      | 1            | $\top$       | $\top$   | $\top$       | $\top$       | T             | $\top$   | П         |          | _   | 49 | $\top$   | T  | T-   | $\top$   | $\top$   | +-       | 1            | T            | 1 |
|                | _1 _       | 1            | -  | -  | -            |                | -         |              | -        |              |           | -            | -ı ⊢                                       |     | 100      |        | _            |              |          | -+           | +-           |               | +-       | 1         | ⊢        |     | 50 | +        | +  | +-   | +-       | +        | +-       | -            | -            | - |

If more than 150 claims or 10 actions staple additional sheet here

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